

Medicare: Inpatient Use of Short-Stay

Hospitals, 1977

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### Health Care Financing Notes

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The mission of the Health Care Financing Administration is to promote the timely delivery of appropriate, quality health care to its beneficiaries—approximately 45 million aged, disabled, and poor Americans. HCFA is committed to making beneficiaries aware of the services for which they are eligible, promoting the accessibility of those services and ensuring that HCFA policies and actions promote efficiency and quality within the total health care delivery system.

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# Medicare: Inpatient Use of Short-Stay Hospitals, 1977

This Note presents for the first time preliminary estimates on the use, charges, and amounts reimbursed for Medicare aged and disabled Hospital Insurance (HI) beneficiaries discharged from participating short-stay hospitals during 1977.1 Data are shown for aged and disabled beneficiaries by State of residence. Trend data for the years 1969 to 1977 are also shown.

Prior to 1973 persons aged 65 years and older constituted the entire Medicare population and thus, the HI program covered only these individuals. Starting July 1973, the Medicare HI benefits were extended to persons under 65 years of age. These were persons who were entitled to cash benefits for not less than 24 consecutive months under the disability insurance program and to persons with end-stage renal disease (ESRD). Highlights of the data follow:

#### Trends, 1969-1977

#### Aged

- Between 1969 and 1977, the number of aged shortstay hospital discharges increased from about 5.9 million to an estimated 7.7 million—an increase of about 32 percent. During this period, the total days of care (covered and non-covered) increased from 79.8 million to 84.8 million. However, the average length of stay per discharge decreased from 13.6 days to 11.0 days.
- Although, between 1969 and 1977, the total number of inpatient days covered by HI increased by about 6.5 percent, Medicare HI reimbursement for short-stay hospital services to the aged nearly tripled, rising from \$4.1 billion to \$12.1 billion, an average annual rate of increase of about 14.5 percent.
- The average reimbursement per discharge increased from \$706 to \$1,573 although the average length of covered stay per discharge decreased from 13.4 to 10.8 days. Covered days per stay are less than the total length of stay because not all days of hospitalization are covered by the program. In some cases, the total length of stay exceeded the benefits provided by the program or did not meet the other requirements for coverage under the program.

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<sup>1</sup> For a detailed report of the conditions of participation for shortstay hospitals under Medicare, see "Regulations No. 5, Federal Health Insurance for the Aged", Title 20, Chapter III, part 405, Health Care Financing Administration.

#### Trends, 1974-77

#### Disabled

- Between 1974 (the first full year that the disabled were covered under HI) and 1977, the number of disabled short-stay hospital discharges increased 57 percent, from almost 596,000 to about 937,000. The total days of care used by the disabled increased from 6.6 million days to 9.6 million days, an increase of 45 percent. The average length of stay per discharge decreased from 11.2 to 10.3 days—a decrease of approximately 8 percent.
- Medicare HI reimbursement for short-stay hospital services to the disabled increased almost 131 percent between 1974 and 1977, from \$628 million to \$1.45 billion—an average annual rate of increase of about
- The average reimbursement per discharge increased from \$1,055 to \$1,547 despite the decrease from 10.8 to 10.1 days in the average length of covered stay.

#### Utilization, Charges, and Reimbursements, 1977

#### Aged

- In 1977, the aged used 84.8 million days of inpatient care. Medicare covered 83.5 million days and reimbursed about 73 percent (\$12.1 billion) of the \$16.6 billion in total charges incurred by the aged. The balance was made up by out-of-pocket payments by the aged for deductibles and coinsurance, services used by beneficiaries which are not covered by Medicare (e.g., television), and non-recoverable charges billed by the hospital since Medicare reimbursement is based on "reasonable costs."
- Among the four U.S. Census regions, utilization and charges for short-stay hospitals varied considerably. The average length of covered stay ranged from 8.8 days in the West to 13.0 days in the Northeast.
- The mean reimbursement per discharge ranged from \$1,263 in the South to \$1,963 in the Northeast. The mean reimbursement per covered day ranged from \$125 in the South to \$198 in the West.
- The Northeast, with about 21.8 percent of the discharges in the U.S. and the West with 15.3 percent accounted for a smaller percentage of the discharges than the proportion of the HI enrollment living in those regions (24.6 and 16.3 percent, respectively). The South, with 31.7 percent of the HI enrollment accounted for 34.4 percent of the discharges.
- Medicare program expenditures (\$12.1 billion) for aged short-stay hospital discharges accounted for close to 94 percent of the total HI reimbursements (\$12.9 billion) for the aged in 1977.2

<sup>&</sup>lt;sup>2</sup>Source: HCFA unpublished data, current utilization tabulations.

# Utilization, Charges, and Reimbursement, 1977

#### Disabled

- Disabled beneficiaries had an average length of covered stay of 10.1 days compared to 10.8 days for the aged. The average reimbursement per discharge was slightly less for the disabled than for the aged— \$1,547 compared to \$1,573.
- Among the four U.S. Census regions, the average length of covered stay for discharges of disabled beneficiaries ranged from 8.4 days in the West to 12.0 days in the Northeast; the mean reimbursement per discharge ranged from \$1,220 in the South to \$1,868 in the Northeast.
- Among the 50 States, the average length of covered stay ranged from 7.2 days in Montana to 12.8 days in New York and New Jersey. The mean reimbursement per discharge ranged from \$816 in Arkansas to \$2,671 in the District of Columbia.
- Medicare program expenditures (\$1.45 billion) for disabled beneficiaries discharged from short-stay hospitals accounted for over 92 percent of the total HI reimbursement (\$1.6 billion) for Medicare disability beneficiaries in 1977.3

#### Sources and Limitations of Data

Data published in this *Note* were derived from billing forms for in patient hospital services submitted for payment by participating short-stay hospitals.

Information from the billing forms is matched to the Health Insurance Eligibility master file which contains information on the beneficiaries' demographic characteristics. The discharge record is then matched to the Provider of Services master file which contains information on the type of characteristics of each participating hospital. Data presented in this *Note* are based on discharge records processed and recorded as of June 1978. As a result, the 1977 data should be regarded as "preliminary" since an estimated 3 percent of the discharge records for 1977 had not been processed for payment as of June 1978. The sample counts for 1977 have been multiplied by 5 to give an estimate of the total number of discharges recorded as of that date.

#### Standard Error Tables

Tables 4, 5, and 6 show approximate standard errors for estimates presented in this report. The standard error is a measure of sampling variability: the variation occurs by chance because a sample rather than the whole population is used. Approximate methods were used to calculate the standard errors at a reasonable cost. Thus, these tables should be used only as indicators of the order of magnitude of the standard errors for specific estimates.

#### **Definitions**

Covered day of care—A day of inpatient skilled nursing care during which the services (determined to be medically necessary by the Professional Standards Review Organization or the Utilization Review Committee) covered by Medicare were furnished to a person eligible for HI benefits. The day of discharge is not counted as a day of care.

Day of care—A day of inpatient hospital care during which services were furnished to a person eligible for hospital insurance benefits. The day of discharge is not counted as a day of care.

Discharge—The formal release of a patient from a hospital. Discharges include persons who died during their hospitalization or were transferred to another hospital.

Reimbursement—Payments under the HI program which are shown in this *Note* are based on interim reimbursement rates reported on processed bills. The interim rates are established to reflect current costs as closely as possible. These are usually established as a per diem amount or as a percentage of total charges. Figures shown exclude amounts for which the patient is responsible such as deductibles, coinsurance, and charges for noncovered services. The final amount of reimbursement due under Medicare to each provider of medical services is determined after the end of the fiscal year on the basis of the providers' audited reasonable costs of operation.

Short-stay hospitals—Those hospitals where the average length of stay is less than 30 days. General and special hospitals are included in this category.

State—Refers to the State where the beneficiary is living, not the State where he or she receives services.

<sup>3</sup> Ibid

Table 1
Use of Short Stay Hospital Services by Medicare Hospital Insurance Beneficiaries: Number of Discharges, Days of Care, Charges, and Reimbursement by Type of Beneficiary, 1969-77

			D	ays of C	are		Cha	rges		Reim	ourseme	ent
Calendar	•	Total	Days	Co	vered D	ays						
Year	Number of Discharges	Total (In Thou- sands)	Per Dis- charge	Total (In Thou- sands)	Per Dis- charge	Percent of Total Days	Amount (In Thou- sands)	Per Dis- charge	Per Day	Amount (In Thou- sands)	Per Dis- charge	Percent of Total Charges
					Al	l Benefic	iaries					
1969¹	5,854,780	79,761	13.6	78,356	13.4	98.2	\$ 5,260,606	\$ 899	\$ 66	\$ 4,132,826	\$ 706	78.5
1970¹	5.920.320	77,652	13.1	75,914	12.8	97.7	5,908,690	998	76	4,517,654	763	76.4
19711	6.111.835	77,395	12.7	75,313	12.3	97.3	6,733,494	1,102	87	5,129,245	839	76.1
19721	6,495,050	79,809	12.3	76,788	11.8	96.2	7,560,301	1,164	95	5,709,189	879	75.5
1973	6,861,125	81,380	11.9	77,663	11.3	95.4	8,269,144	1,207	102	6,253,014	911	75.6
1974	7,012,555	81,307	11.6	79,418	11.3	97.7	9,722,750	1,386	120	7,309,058	1,042	75.2
1975	7,413,490	84,140	11.3	82,734	11.2	98.3	12,309,324	1,660	146	9,209,250	1,242	74.8
1976	8,320,120	93,516	11.2	91,993	11.1	98.4	15,971,925	1,920	171	11,895,771	1,430	74.5
1977 <sup>2</sup>	8,645,490	94,443	10.9	92,931	10.7	98.4	18,646,394	2,157	197	13,578,140	1,571	72.8
						Aged						
1969	5.854,780	79.761	13.6	78,356	13.4	98.2	5,260,606	899	66	4,132,826	706	78.5
1970	5,920,320	77,652	13.1	75,914	12.8	97.7	5,908,690	998	76	4,517,654	763	76.4
1971	6,111,835	77,395	12.7	75,313	12.3	97.3	6,733,494	1,102	87	5,129,245	839	76.1
1972	6,495,050	79,809	12.3	76,788	11.8	96.2	7,560,301	1,164	95	5,709,189	879	75.5
1973	6,628,105	78,838	11.9	75,324	11.4	95.6	8,002,424	1,209	102	6,052,260	915	75.6
1974	6,416,840	74,664	11.6	72,995	11.4	97.8	8,865,347	1,382	119	6,680,648	1,041	75.4
1975	6,697,055	76,457	11.4	75,213	11.2	98.4	11,088,929	1,656	145	8,319,313	1,242	75.0
1976	7,461,725	84,474	11.3	83,139	11.1	98.4	14,303,731	1,917	169	10,681,706	1,432	74.7
19772	7,708,245	84,819	11.0	83,492	10.8	98.4	16,614,165	2,155	196	12,127,858	1,573	73.0
						Disable	ed					
1973	233,020	2,542	10.9	2,339	10.0	92.0	266,720	1,145	105	200,754	862	75.3
1974	595,715	6,643	11.2	6,423	10.8	96.7	857,403	1,439	129	628,410	1,055	73.3
1975	716,435	7,683	10.7	7,521	10.5	97.9	1,220,395	1,703	159	889,937	1,242	72.9
1976	858,395	9,042	10.5	8,854	10.3	97.9	1,668,194	1,943	184	1,214,065	1,414	
1977 <sup>2</sup>	937,245	9,624	10.3	9,439	10.1	98.1	2,032,229	2,168	211	1,450,282	1,547	71.4

<sup>&</sup>lt;sup>1</sup>Prior to 1973, services were covered only for beneficiaries aged 65 and over. Effective July 1, 1973, HI benefits were extended to persons under 65 years of age who were entitled to cash benfits for not less than 24 consecutive months under the disability insurance program and to persons with end-stage renal disease (ESRD).

<sup>&</sup>lt;sup>2</sup> Preliminary estimates.

Table 2
Use of Short Stay Hospital Services by Aged Medicare Hospital Insurance Beneficiaries: Number of Discharges, Days of Care, Charges, and Reimbursement by Region, Division, and State, 1977

			D	ays of C	are		Cha	arges		Rein	bursem	ent
Area of Residence		Total	Days	Co	overed D	Days						
	Number of Discharges	Total (In Thou- sands)	Per Dis- charge	Total (In Thou- sands)	Per Dis- charge	Percent of Total Days	Amount (In Thou- sands)	Per Dis- charge	Per Day	Amount (In Thou- sands)	Per Dis- charge	Percent of Total Charges
All Areas	7,708,245	84,819	11.0	83,492	10.8	98.4	\$16,614,165	\$2,155	\$196	\$12,127,858	\$1,573	73.0
United States	7,656,230	84,246	11.0	82,928	10.8	98.4	16,550,880	2,162	196	12,090,152	1,579	73.0
Northeast North Central South West	1,671,735 2,174,290 2,635,455 1,173,245	22,444 24,383 26,917 10,487	13.4 11.2 10.2 8.9	21,794 24,108 26,651 10,360	13.0 11.1 10.1 8.8	97.1 98.9 99.0 98.8	4,757,911 4,487,866 4,637,624 2,664,447	2,846 2,064 1,760 2,271	212 184 172 254	3,281,278 3,424,762 3,327,641 2,054,244	1,963 1,575 1,263 1,751	69.0 76.3 71.8 77.1
New England Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	435,930 46,380 31,680 19,730 215,640 31,795 90,705	5,269 472 326 214 2,825 371 1,061	12.1 10.2 10.3 10.8 13.1 11.7	5,110 464 320 210 2,700 368 1,050	11.7 10.0 10.1 10.6 12.5 11.6 11.6	97.0 98.2 98.0 98.1 95.5 99.2 98.9	1,088,477 89,148 54,981 33,062 604,523 76,641 230,122	2,497 1,922 1,736 1,676 2,803 2,410 2,537	207 189 169 155 214 207 217	862,144 72,061 43,761 26,644 470,856 61,750 187,072	1,978 1,554 1,381 1,350 2,184 1,942 2,062	79.2 80.8 79.6 80.6 77.9 80.6 81.3
Middle Atlantic New York New Jersey Pennsylvania	1.235,805 574,740 229,145 431,920	17,175 8,598 3,177 5,400	13.9 15.0 13.9 12.5	16,684 8,295 3,097 5,291	13.5 14.4 13.5 12.3	97.1 96.5 97.5 98.0	3,669,434 1,922,243 659,123 1,088,069	2,969 3,345 2,876 2,519	214 224 207 202	2,419,134 1,285,862 420,606 712,666	1,958 2,237 1,836 1,650	65.9 66.9 63.8 65.5
East North Central Ohio Indiana Illinois Michigan Wisconsin	1,383,910 349,275 180,025 406,210 276,350 172,050	16,209 4,204 2,043 4,884 3,229 1,850	11.7 12.0 11.3 12.0 11.7 10.8	16,039 4,178 2,019 4,794 3,211 1,836	11.6 12.0 11.2 11.8 11.6 10.7	98.9 99.4 98.8 98.2 99.5 99.3	3,148,753 777,350 322,199 1,024,502 702,714 321,987	2,275 2,226 1,790 2,522 2,543 1,871	194 185 158 210 218 174	2,379,289 574,594 266,086 739,849 537,079 261,681	1,719 1,645 1,478 1,821 1,943 1,521	75.6 73.9 82.6 72.2 76.4 81.3
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	790,380 162,585 141,800 219,135 33,270 36,440 76,620 120,530	8,174 1,657 1,377 2,499 309 337 777 1,217	10.3 10.2 9.7 11.4 9.3 9.2 10.1 10.1	8,069 1,629 1,364 2,474 304 332 763 1,203	10.2 10.0 9.6 11.3 9.1 9.1 10.0 10.0	98.7 98.3 99.0 99.0 98.2 98.6 98.1 98.9	1,339,113 281,369 218,315 421,281 50,803 49,679 127,120 190,548	1,694 1,731 1,540 1,922 1,527 1,363 1,659 1,581	164 170 159 169 164 148 164 157	1,045,473 236,308 177,371 312,397 41,655 39,850 91,717 146,166	1,323 1,453 1,251 1,426 1,252 1,094 1,197 1,213	78.1 84.0 81.2 74.2 82.0 80.2 72.1 76.7
South Atlantic Delaware Maryland Dist. of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	1,211,910 15,385 96,000 16,570 144,550 80,965 168,800 78,180 159,010 452,450	13,044 187 1,243 241 1,813 873 1,926 838 1,444 4,479	10.8 12.2 12.9 14.6 12.5 10.8 11.4 10.7 9.1 9.9	12,861 184 1,232 227 1,777 860 1,883 804 1,433 4,462	10.6 12.0 12.8 13.7 12.3 10.6 11.2 10.3 9.0 9.9	98.6 98.5 99.1 94.0 98.0 98.4 97.8 95.9 99.2	2,381,331 36,037 252,319 54,203 294,210 134,025 260,419 121,895 245,729 982,495	3,271 2,035 1,655 1,543 1,559 1,545	183 193 203 224 162 153 135 145 170 219	1,729,933 28,099 206,902 43,234 200,822 89,592 200,161 90,429 177,911 692,781	1,427 1,826 2,155 2,609 1,389 1,107 1,186 1,157 1,119 1,531	72.6 78.0 82.0 79.8 68.3 66.8 76.9 74.2 72.4 70.5

Table 2 (Continued)
Use of Short Stay Hospital Services by Aged Medicare Hospital Insurance Beneficiaries: Number of Discharges, Days of Care, Charges, and Reimbursement by Region, Division, and State, 1977

			D	ays of C	are		Cha	rges		Reim	bursem	ient
Area of Residence		Total	Days	Co	overed [	Days						
	Number of Discharges	Total (In Thou- sands)	Per Dis- charge	Total (In Thou- sands)	Per Dis- charge	Percent of Total Days	Amount (In Thou- sands)	Per Dis- charge	Per Day	Amount (In Thou- sands)	Per Dis- charge	Percent of Total Charges
East South Central Kentucky Tennessee Alabama Mississippi West South Central	569,680 141,480 168,725 149,125 110,350 853,865	5,791 1,442 1,751 1,464 1,135	10.2 10.2 10.4 9.8 10.3	5,752 1,432 1,734 1,460 1,126 8,038	10.1 10.1 10.3 9.8 10.2	99.3 99.3 99.1 99.8 99.2	\$ 917,146 207,101 294,381 261,275 154,389 1,339,147	\$1,610 1,464 1,745 1,752 1,399 1,568	\$158 144 168 179 136	\$ 612,246 156,004 186,958 164,395 104,888 985,463	\$1,075 1,103 1,108 1,102 951 1,154	66.8 75.3 63.5 62.9 67.9
Arkansas Louisiana Oklahoma Texas	117,370 134,440 131,750 470,305	1,066 1,321 1,198 4,497	9.1 9.8 9.1 9.6	1,062 1,315 1,190 4,471	9.0 9.8 9.0 9.5	99.6 99.5 99.3 99.4	155,973 219,141 215,717 748,315	1,329 1,630 1,637 1,591	146 166 180 166	104,615 148,094 160,303 572,450	891 1,102 1,217 1,217	67.1 67.6 74.3 76.5
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	307,870 32,110 30,215 13,550 80,555 32,320 75,755 25,620 17,745	2,816 267 244 117 781 287 755 209 157	9.1 8.3 8.1 8.6 9.7 8.9 10.0 8.2 8.9	2,775 261 241 116 776 279 741 204 157	9.0 8.1 8.0 8.6 9.6 8.6 9.8 8.0	98.5 97.8 98.7 99.2 99.4 97.5 98.2 97.4 99.6	559,490 44,583 44,453 17,966 155,357 53,489 160,364 41,374 41,904	1,817 1,388 1,471 1,326 1,929 1,655 2,117 1,615 2,361	199 167 183 154 199 187 213 198 267	418,064 34,337 34,870 13,830 114,208 41,268 117,471 32,368 29,712	1,551 1,263	74.7 77.0 78.4 77.0 73.5 77.2 73.3 78.2 70.9
Pacific Washington Oregon California Alaska Hawaii	865,375 118,470 83,405 645,565 2,655 15,280	7,671 910 688 5,893 21 160	8.9 7.7 8.2 9.1 7.9 10.5	7,586 905 681 5,827 21 151	8.8 7.6 8.2 9.0 7.9 9.9	98.9 99.5 99.1 98.9 99.7 94.7	2,104,957 198,996 153,260 1,711,526 6,374 34,801	2,432 1,680 1,838 2,651 2,401 2,278	274 219 223 290 302 218	1,636,181 159,186 129,748 1,314,113 5,290 27,845	1,556 2,036 1,992	77.7 80.0 84.7 76.8 83.0 80.0
Other Areas Puerto Rico Virgin Islands Guam Foreign Other Outlying Area	52,015 49,370 660 410 1,510	573 542 10 5 16	11.2 11.0 15.0 11.4 10.6 6.5	564 534 9 5 16	10.8 10.8 13.1 11.3 10.6 6.5	98.4 98.5 87.3 99.4 99.9 100.0	63,287 57,500 974 748 4,001	1,476 1,824 2,649	110 106 99 161 250 150	37,735 33,579 635 650 2,798 43	680 962 1,586 1,853	65.2 87.0 69.9
Residence Unknown	1,505	15	10.0	15	10.0	99.3	3,030	2,013	201	2,226	1,479	73.5

<sup>&</sup>lt;sup>1</sup>Greater than 0 but less than 500.

Table 3
Use of Short Stay Hospital Services by Disabled Medicare Hospital Insurance Beneficiaries: Number of Discharges,
Days of Care, Charges, and Reimbursement by Region, Division, and State, 1977

			D	ays of C	are		Cha	arges		Reim	bursen	ent
Area of Residence		Total	Days	C	overed [	Days						
Area of residence	Number of Discharges	Total (In Thou- sands)	Per Dis- charge	Total (In Thou- sands)	Per Dis- charge	Percent of Total Days	Amount (In Thou- sands)	Per Dis- charge	Per Day	Amount (In Thou- sands)	Per Dis- charge	Percent of Total Charges
All Areas	937.245	9,624	10.3	9,439	10.1	98.1	\$2,032,229	\$2,168	\$211	\$1,450,282	\$1,547	71.3
United States	931,245	9,564	10.3	9,380	10.1	98.1	2,024,528	2,174	212	1,445,626	1,552	71.4
Northeast North Central South West	184,185 228,480 362,695 153,615	2,281 2,493 3,451 1,311	12.4 10.9 9.5 8.5	2,213 2,446 3,413 1,284	12.0 10.7 9.4 8.4	970 98.1 98.8 97.9	508,200 509,203 637,471 362,529	2,759 2,229 1,758 2,360	223 204 185 277	344,060 381,136 442,380 273,250	1,868 1,668 1,220 1,779	67.7 74.8 69.4 75.4
New England Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	42,920 5,560 3,280 2,270 19,260 3,540 9,010	469 54 31 22 223 38 102	10.9 9.7 9.4 9.8 11.6 10.6 11.3	458 53 31 22 215 38 100	10.7 9.5 9.3 9.6 11.2 10.6 11.1	97.7 98.1 99.0 98.3 96.8 99.7 98.2	104,523 10,686 5,482 3,803 52,156 8,505 23,890	1,671 1,675 2,708 2,402	198 177 172 234 226	82,407 8,772 4,444 3,100 39,916 6,858 19,317	1,920 1,578 1,355 1,365 2,073 1,937 2,144	78.8 82.1 81.1 81.5 76.5 80.6 80.9
Middle Atlantic New York New Jersey Pennsylvania	141,265 62,095 28,150 51,020	1,812 829 368 616	12.8 13.3 13.1 12.1	1,755 797 360 598	12.4 12.8 12.8 11.7	96.8 96.2 97.8 97.1	403,677 189,725 80,996 132,956	2,877	229 220	261,653 126,438 50,910 84,305	1,852 2,036 1,809 1,652	64.8 66.6 62.9 63.4
East North Central Ohio Indiana Illinois Michigan Wisconsin	160,750 43,315 22,765 40,545 37,965 16,160	1,811 500 250 465 424 171	11.3 11.5 11.0 11.5 11.2 10.6	1,779 494 245 450 421 169	11.1 11.4 10.7 11.1 11.1 10.5	98.2 98.9 97.7 96.7 99.1 99.0	383,460 98,815 44,489 104,936 101,801 33,420	2,281 1,954 2,588 2,681	198 178 226 240	283,948 71,395 35,583 73,245 76,819 26,907	1,766 1,648 1,563 1,807 2,023 1,665	74.0 .72.3 80.0 69.8 75.5 80.5
West North Central Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	67,730 12,855 11,780 23,710 2,585 2,660 5,220 8,920	684 136 112 247 24 24 54 86	10.1 10.6 9.5 10.4 9.4 9.1 10.4 9.7	668 130 109 243 24 24 53 84	9.9 10.1 9.3 10.3 9.2 9.0 10.2 9.4	97.6 95.8 97.6 98.5 98.0 98.5 97.5 97.8	125,742 26,572 19,744 44,803 4,454 4,382 10,453 15,334	2,067 1,676 1,890 1,723 1,648 2,003	196 177 181 183 181 192	97,186 22,728 15,890 32,459 3,659 3,501 7,229 11,721	1,435 1,768 1,349 1,369 1,415 1,316 1,385 1,314	77.3 85.5 80.5 72.4 82.1 79.9 69.2 76.4
South Atlantic Delaware Maryland Dist. of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	175,820 1,875 11,385 1,830 22,865 14,010 29,745 15,340 32,760 46,010	1,754 23 141 24 262 130 309 145 278 441	10.0 12.2 12.4 13.4 11.5 9.3 10.4 9.5 8.5 9.6	1,729 22 139 22 255 130 304 142 277 438	9.3 8.4	98.6 97.7 99.1 91.0 97.5 99.4 98.2 97.6 99.4 99.4	335,133 4,484 32,204 6,195 47,360 22,716 48,511 22,870 51,486 99,306	2,392 2,829 3,385 2,071 1,621 1,631 1,491 1,572	196 229 253 181 174 157 157 185	237,533 3,566 25,728 4,888 30,060 14,330 36,648 16,763 36,346 69,204	1,902 2,260 2,671 1,315 1,023 1,232 1,093 1,109	70.9 79.5 79.9 78.9 63.5 63.1 75.5 73.3 70.6 69.7
East South Central Kentucky Tennessee Alabama Mississippi	89,550 19,170 28,235 23,960 18,185	828 177 265 222 163	9.2 9.2 9.4 9.3 9.0	822 177 264 221 161	9.2	99.4 99.6 99.3 99.6 99.0	144,458 28,073 49,342 42,305 24,738	1,464 1,748 1,766	158 186 191	92,696 20,880 29,480 26,710 15,626	1,089 1,044 1,115	64.2 74.4 59.7 63.1 63.2
West South Central Arkansas Louisiana Oklahoma Texas	97,325 15,675 18,935 14,495 48,220	,871 127 172 122 450	9.0 8.1 9.1 8.4 9.3	861 125 170 122 444	9.0 8.4	98.9 98.7 99.1 99.8 98.6	157,881 20,182 30,251 25,157 82,291	1,288 1,598 1,736	159 176 206	112,152 12,789 19,175 18,430 61,757	816 1,013 1,271	71.0 63.4 63.4 73.3 75.0

Table 3 (Continued)
Use of Short Stay Hospital Services by Disabled Medicare Hospital Insurance Beneficiaries: Number of Discharges,
Days of Care, Charges, and Reimbursement by Region, Division, and State, 1977

			D	ays of C	are		Cha	arges		Reim	bursem	ent
Area of Residence		Total Days		Co	Covered Days							
	Number of Discharges	Total (In Thou- sands)	Per Dis- charge	Total (In Thou- sands)	Per Dis- charge	Percent of Total Days	Amount (In Thou- sands)	Per Dis- charge	Per Day	Amount (In Thou- sands)	Per Dis- charge	Percent of Total Charges
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	35,275 3,425 3,310 1,185 8,785 3,715 9,485 2,670 2,700	310 29 27 10 78 30 90 22 24	8.8 8.5 8.2 8.6 8.9 8.1 9.5 8.2 8.7	301 25 27 10 77 30 88 22 23	8.5 7.2 8.1 8.6 8.8 8.0 9.3 8.1 8.6	97.2 84.2 99.1 100.0 99.0 98.9 97.7 98.3 99.1	\$ 68,600 4,686 4,961 1,602 17,478 6,942 20,988 5,170 6,773	\$1,945 1,368 1,499 1,352 1,990 1,869 2,213 1,936 2,508	\$221 161 183 157 224 231 233 235 288	\$ 48,865 3,536 3,987 1,306 11,694 5,354 14,600 3,775 4,613	\$1,385 1,033 1,204 1,102 1,331 1,441 1,539 1,414 1,708	71.2 75.5 80.4 81.5 66.9 77.1 69.6 73.0 68.1
Pacific Washington Oregon California Alaska Hawaii	118,340 12,680 9,445 94,010 385 1,820	1,000 102 76 801 3 19	8.5 8.0 8.0 8.5 8.2 10.3	982 101 74 787 3 17	8.3 7.9 7.8 8.4 8.2 9.3	98.2 99.2 98.0 98.2 100.0 90.2	293,929 23,455 18,067 246,874 1,122 4,411	2,484 1,850 1,913 2,626 2,915 2,424	294 231 239 308 353 236	224,384 18,436 15,479 186,084 926 3,460	1,896 1,454 1,639 1,979 2,405 1,901	76.3 78.6 85.7 75.4 82.5 78.4
Other Areas Puerto Rico Virgin Islands Guam Foreign Other Outlying Area	6,000 5,625 55 90 175 a 2,270	59 56 1 1 2 25	9.8 9.9 6.1 14.6 10.9 11.1	58 55 1 1 2 24	9.7 9.7 6.1 14.6 10.9 10.7	99.0 98.0 100.0 99.6 100.0 96.9	7,703 6,794 44 339 499 7,124	1,284 1,208 795 3,768 2,849 3,138	131 122 131 258 261 283	4,655 3,958 27 282 366 4,802	776 704 490 3,134 2,094 2,116	60.4 58.3 61.6 83.2 73.5 67.4
Residence Unknown	55	1	8.1	1	8.1	100.0	27	484	60	22	405	83.7

<sup>&</sup>lt;sup>1</sup>Greater than 0 but less than 500:

Table 4
Approximate Standard Error of Estimated Numbers of Discharges and Estimated Number of Persons Using Services

Estimated Number Discharges or Number	Standar	d Error
of Persons	Discharges	Persons
10,000	300	210
25,000	480	340
50,000	670	480
100,000	940	690
150,000	1,100	850
200,000	1,300	990
250,000	1,500	1,100
500,000	2,100	1,700
750,000	2,600	2,100
1,000,000	3,100	2,500
2,000,000	4,900	4,000
3,000,000	6,600	5,300
4,000,000	8.300	6,600
5,000,000	10,000	7,900
6,000,000	12,000	9,100
7,000,000	13,000	10,000
8,000,000	14,000	11,000

Table 5
Approximate Standard Error of Estimated Hospital
Reimbursement Under Medicare

Estimated Reimbursement	Standard Error
1,000,000,000	4,100,000
2,000,000,000	6,020,000
3,000,000,000	7,400,000
4,000,000,000	8,440,000
5,000,000,000	9,200,000
6,000,000,000	9,740,000
8,000,000,000	10,200,000
10,000,000,000	12,200,000
12,000,000,000	13,400,000

Table 6
Approximate Standard Error of Days Per Discharge (Average Length of Stay)

Days per			Bas	e of Rate	(number	of discha	rges in th	ousands)		
Discharge	10	25	50	100	200	500	1,000	2,000	4,000	6,000
7	.26	.16	.12	.083	.059	.038	.027	.019	.015	.012
8	.28	.17	.12	.088	.063	.040	.029	.021	.016	.013
9	.29	.19	.13	.093	.066	.043	.031	.022	.017	.015
10	.31	.20	.14	.098	.070	.045	.032	.024	.018	.016
11	.32	.21	.15	.10	.074	.047	.034	.025	.019	.017
12	.34	.22	.15	.11	.077	.050	.036	.027	.021	.018
13	.36	.23	.16	.11	.081	.052	.038	.028	.022	.020
14	.37	.24	.17	.12	.085	.054	.040	.030	.023	.021
15	.39	.25	.18	.12	.088	.057	.041	.031	.025	.022
16	.41	.26	.18	.13	.092	.059	.043	.033	.026	.024
17	.43	.27	.19	.13	.096	.062	.045	.034	.027	.025
18	.44	.28	.20	.14	.10	.064	.047	.036	.029	.026
19	.46	.29	.21	.15	.10	.067	.049	.037	.030	.028
20	.48	.30	.21	.15	.11	.069	.051	.039	.031	.029

# Health Care Financing Notes

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